

FIG. 1A

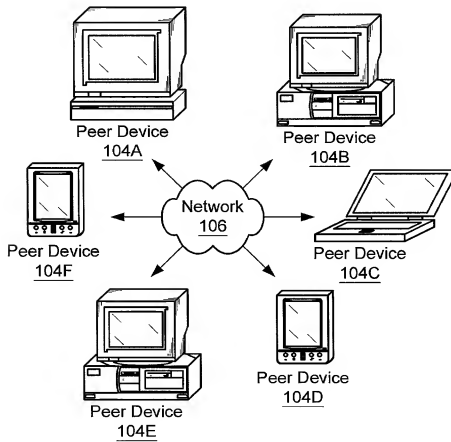


FIG. 1B

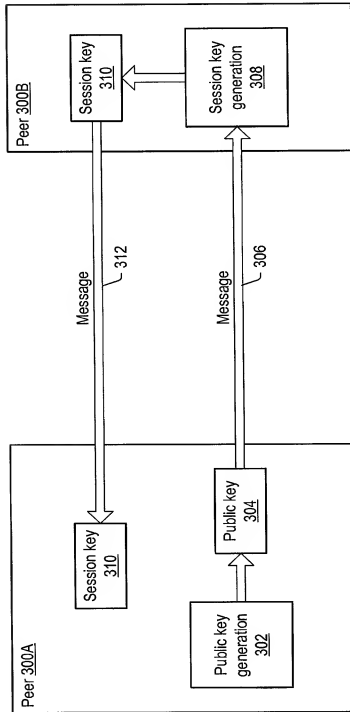


FIG. 2

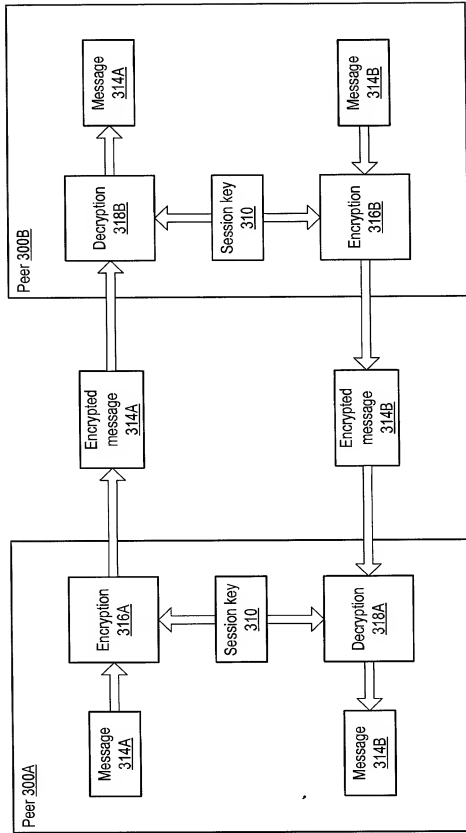


FIG. 3



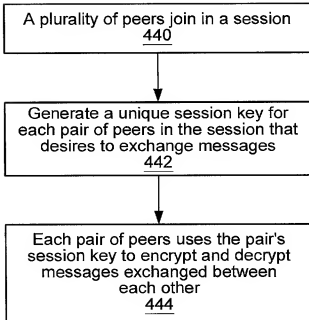


FIG. 8

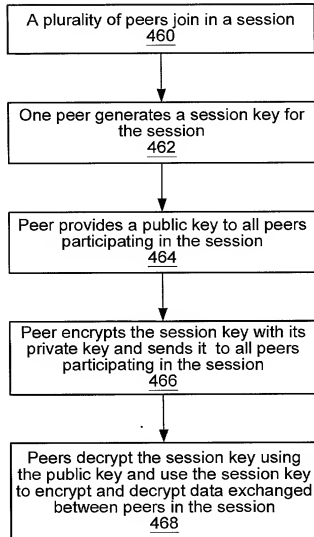


FIG. 9

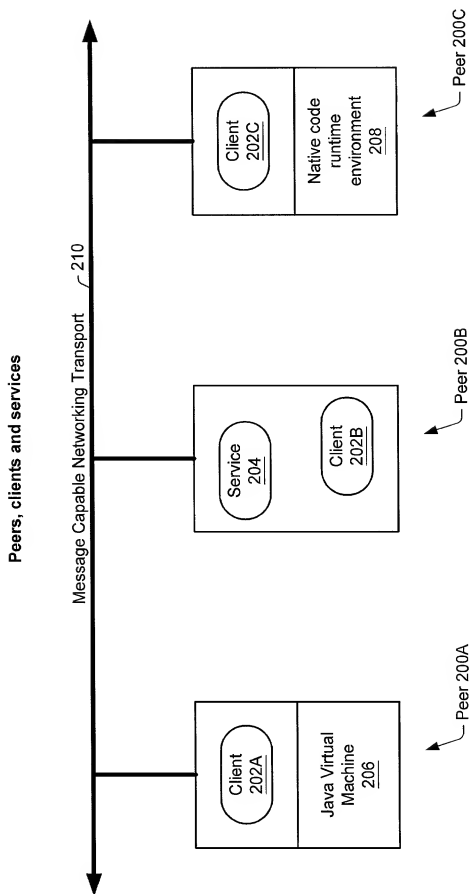


FIG. 10

Peer-to-peer platform message

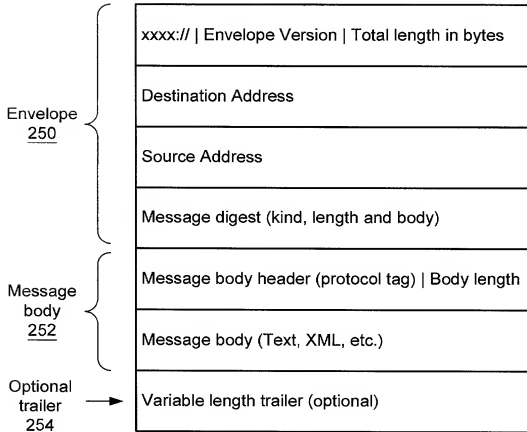


FIG. 11

Content ID

128-bit UUID of Peer Group	Length of Remainder	Unique name within the group (A byte array)
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FIG. 12

Peer-to-peer sharing layers

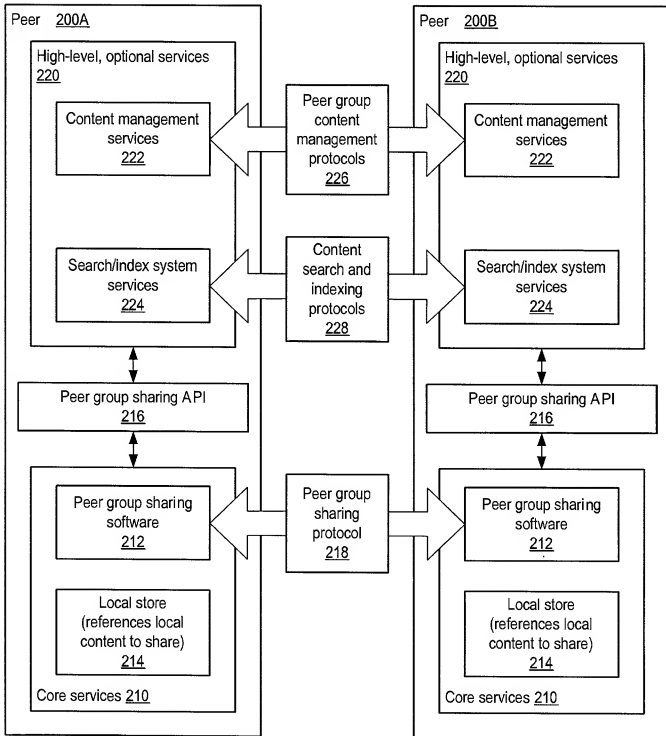


FIG. 13

Policy Advertisement

Element Name (A String)	Element Value Type
Policy Name	A non-canonical resource name (suitable for UI display)
Policy Keywords	String[]
Policy Resolver	<Peer Endpoint> to which the query generation and resolve messages are to be sent

FIG. 14

Peer Advertisement

Element Name (A String)	Element Value Type
Peer Endpoint	<Peer Endpoint[]>

FIG. 15

Peer Group Advertisement

Element Name (A String)	Element Value Type
Membership Application Policy	<Policy Advertisement>
New Member Approval Policy (Authentication)	<Policy Advertisement>
Content Sharing Policy	<Policy Advertisement>
Peer Discovery Policy	<Policy Advertisement>
Policy Resolver Policy	<Policy Advertisement>
Pipe Resolver Policy	<Policy Advertisement>

FIG. 16

Pipe Advertisement

Element Name (A String)	Element Value Type
Direction	<Pipe Direction> (In or Out)

*FIG. 17***Service Advertisement**

Element Name (A String)	Element Value Type
Access Policy	<Policy Advertisement>

*FIG. 18***Content Advertisement**

Element Name (A String)	Element Value Type
Type (Optional)	String
Size (Required)	Long
Encoding (Required)	<By Value> or <By Reference>
Content ID (Required)	<Content ID>
About ID (Optional)	<Content ID>
Peer ID (Optional)	<Peer Advertisement>

FIG. 19

Networking protocol stack

